



AMENDMENTS TO THE CLAIMS

IN THE CLAIMS

Please amend the claims as follows as follows:

1 1. (currently amended) A peritoneal dialysis system for a patient, comprising:
2 a peritoneal dialyzer that utilizes dialysate to remove impurities from the blood of
3 the patient; and
4 a ~~plurality of sorbent devices~~ sorbent section for regenerating the dialysate,
5 wherein the sorbent section is ~~devices are~~ adapted to be worn on the body of a patient.

1 2. (currently amended) The peritoneal dialysis system of claim 1, wherein the
2 sorbent ~~devices are~~ section comprises at least one sorbent device wherein said at least one
3 sorbent device is connected in series.

1 3. (currently amended) The peritoneal dialysis system of claim 2, [[1,]] wherein each
2 of the at least one sorbent device ~~devices~~ has a flexible casing adapted to conform to the body
3 contour of the patient.

1 4. (currently amended) The peritoneal dialysis system of claim 2, [[1,]] wherein the
2 number of sorbent devices may be varied to reflect different dialysis prescriptions.

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1 5. (original) The peritoneal dialysis system of claim 1, further including a
2 regenerated dialysate inlet tube leading into the peritoneal dialyzer and a spent dialysate outlet
3 tube leading out of the peritoneal dialyzer.

1 6.. (original) The peritoneal dialysis system of claim 5, wherein the regenerated
2 dialysate inlet tube includes a side port for the infusion of additives.

1 7. (original) The peritoneal dialysis system of claim 6, wherein the additives are
2 pumped into the dialysate from a plurality of additive reservoirs.

1 8. (original) The peritoneal dialysis system of claim 6, wherein the rate of infusion
2 of each additive is controlled electronically.

1 9. (original) The peritoneal dialysis system of claim 6, wherein the additives are
2 chosen from the group consisting of: sodium citrate, calcium, potassium and sodium bicarbonate.

1 10. (original) The peritoneal dialysis system of claim 5, wherein the spent dialysate
2 tube leads into the plurality of sorbent devices and the regenerated dialysate tube leads out of the
3 plurality of sorbent devices.

1 11. (currently amended) The peritoneal dialysis system of claim 2, [[1,]] wherein the
2 at least one sorbent devices comprise device comprises replaceable cartridges.

1 12. (currently amended) The peritoneal dialysis system of claim 11, wherein the
2 replaceable cartridges include[[:]] more than one of activated charcoal, urease, zirconium
3 phosphate, hydrous zirconium oxide and activated carbon.

1 13. (currently amended) The peritoneal dialysis system of claim 2, [[1,]] wherein the
2 at least one sorbent devices device are connected in parallel.

1 14.-25. (canceled)